

GOBERMAN, M.D.; RUSAKOV, A.N.; SEMIBRATOV, V.N., redaktor; TARAYEVA, Ye.K.,
redaktor izdatel'stva; EL'KINA, E.M., tekhnicheskij redaktor

[Establishment of technical norms and calculations in the construction
industry] Tekhnicheskoe normirovanie i smety v stroitel'stve.

Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture. Pt.1.

[Technical and wage norms] Tekhnicheskoe i tarifnoe normirovanie.

1956. 242 p.

(MLRA 10:3)

(Wages) (Construction industry--Production standards)

SEMIBRATOV, V.N., inzhener.

Regulation of establishing work norms in building. Stroi.prom. 35
no.3:10-13 Mr '57. (MLRA 10:4)
(Building--Production standards)

GOBERMAN, M.D.; MIRKIN, G.A.; RUSAKOV, A.N.; YUSHKOV, V.A.; SEMIBRATOV,
V.N., inzh., nauchnyy red.; MORSKOY, K.L., red.izd-va;
MEDVEDEV, L.Ya., tekhn.red.

[Handbook for norm-setters in the construction industry]
Spravochnik normirovshchika v stroitel'stve. Moskva, Gos.
izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam,
1959. 263 p. (MIRA 12:6)
(Construction industry)

TSENIN, S.A.; KUZ'MINA, L.P.; SEMIBRATOV, V.N., otv.red.; TEMKINA, Ye.L.,
tekhn.red.

[Standards and estimates for building and assembly work] Edinye
normy i rastsenki na stroitel'nye, montazhnye i remontno-stroi-
tel'nye raboty, 1960 g. Moskva, Gos.izd-vo lit-ry po stroit.,
arkhit. i stroit.materialam. No.7. [Roofing] Krovel'nye raboty.
1960. 25 p. (MIRA 14:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam
stroitel'stva. 2. Tsentral'noye normativno-issledovatel'skoye
byuro Glavmosstroya (for Kuz'mina).
(Roofing)

SEMIBRATOV, V.N.; GRADNIKOV, V.A.; BASHINSKIY, S.V., otv.red.; TEMKINA,
Is.L., tekhn.red.

[Unified handbook of wages and job descriptions for operations and occupations in the field of construction and repair] Edinyi tarifno-kvalifikatsionnyi spravochnik rabot i professii rabochikh, zaniatykh v stroitel'stve i na remontno-stroitel'nykh rabotakh (ETKS), 1960 g. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1960. 190 p. (MIRA 14:4)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.
2. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva Akademii stroitel'stva i arkhitektury SSSR (for Semibratov).
3. Tsentrall'noye normativno-issledovatel'skoye byuro pri Nauchno-issledovatel'skom institute ekonomiki stroitel'stva Akademii stroitel'stva i arkhitektury SSSR (for Gradnikov). (Building trades)

SMIRNOV, B.K.; SEMIBRATOV, V.N., nauchnyy red.; GERASIMOVA, G.S.,
red. izd-va; NAUMOVA, G.D., tekhn. red.

[Methods for consolidating production norms in building operations] Metody ukрупneniia proizvodstvennykh norm na stroitel'-nye raboty. Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1961. 122 p. (MIRA 15:2)
(Building)

GALITSKIY, B.M.; SEMIBRATOV, V.N.; SMIRNOV, B.K.; BASHINSKIY, S.V.,
retsenzent; PRESMAN, S., red.; BEREZOVSKIY, N., tekhn. red.;
PAVLICHENKO, L., tekhn. red.

[Norms and estimates for repair and construction operations] Nor-
my i rastsenki na remontno-stroitel'nye raboty. Kiev, Gos. izd-
vo lit-ry po stroit. i arkhit. USSR, 1961. 91l, 3 p.
(MIRA 14:10)

(Apartment houses—Maintenance and repair)
(Public buildings—Maintenance and repair)

MITIN, Sergey Andreyevich; GOBERMAN, M.D.; MIKHAYLOV, P.D.; RUSAKOV, A.N.; SEMIBRATOV, V.N.; TORGONENKO, Ye.A.; GIROVSKIY, V.F., glav. red.; USPENSKIY, V.V., zam. glav. red.; BASHINSKIY, S.V., red.; GORBUSHIN, P.B., red.; GUREVICH, M.S., red.; LEYKIN, B.P., red.; MALYUGIN, V.I., red.; BOGINA, S.L., red. izd-va; NAUMOVA, G.D., tekhn. red.

[Manual on labor and wages in construction] Spravochnik po trudu i zarabotnoi plate v stroitel'stve. Pod red. S.A.Mitina. Moskva, Gosstroizdat, 1962. 581 p. (MIRA 15:7)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'nyy institut ekonomiki stroitel'stva.
(Wages--Construction industry)

GALITSKIY, Boris Mikhaylovich; SEMIBRATOV, Vsevolod Nikolayevich;
SMIRNOV, Boris Konstantinovich; RUSAKOV, A.N., retsenzent;
SURYGINA, E., red.; SOSNOVSKAYA, G., red.; LEUSHCHENKO, N.,
tekhn. red.; YEREMINA, I., tekhn. red.

[Regulations for the performance of repair and construction
work; norms and estimates] Pravila proizvodstva remontno-
stroitel'nykh rabot, normy i rastsenki. Izd.2., perer. i
dop. Kiev, Gos.izd-vo lit-ry po stroit. i arkhitekt. USSR,
1963. 732 p. (MIRA 16:12)
(Building--Repair and construction)

GOBERMAN, Maks Davydovich; RUSAKOV, Aleksey Nikitovich; SEMIBRATOV,
V.N., kand. tekhn. nauk, nauchn. red.

[Establishment of technical norms and estimates in construction] Tekhnicheskoe normirovanie i smety v stroitel'stve.
Moskva, Stroiizdat. Pt.1. [Technical and wage norms] Tekhnicheskoe i tarifnoe normirovanie. Izd.3., dop. 1964. 447 p.
(MIRA 17:8)

GALITSKIY, Boris Mikhaylovich; SEMIBRATOV, Vsevolod Nikolayevich;
SMIRNOV, Boris Konstantinovich; RUSAKOV, A.N., retsenzent;
SOKOLOV, I.A., red.

[Regulations for the performance of repair and construction
work; norms and estimates] Pravila proizvodstva remontno-
stroitel'nykh rabot, normy i rastsenki. Izd.3., ispr. i
dop. Kiev, Budivel'nyk, 1965. 718 p. (MIRA 18:4)

SEMIERATOV, V.N., kand. tekhn. nauk; VEZLOVTSOV, V.I., inzh.; IL'IN,
S.I., inzh.

Confusion in elucidating the problems of norm setting in engineering.
Stroi. mat. 11 no.7:37-38 J1 '65. (MIRA 18:8)

Suppression of bacterial viruses (bacteriophage) by certain substances. V. L. Ryzhkov and A. I. Semich (All-Union Inst. Biol. Prophylaxis, Moscow). *Byull. Eksp. Biol. Med.* 24, 264-6 (1947).—With the Fitzgerald-Babbitt technique, it was shown that the phage of *E. coli* is repressed by 0.5 mg. % solns. of rivanol and trypanflavine, and 4 mg. % solns. of acridine. Malachite green was as effective as rivanol. They showed little effect on multiplication of the bacteria. Iodoacetic acid repressed phage multiplication only at concns. which also repressed bacterial reproduction. Other phages (*B. typhi abdominalis* and *Vibrio cholerae asiaticae*) are repressed by 1:100-1:1,000 solns. of rivanol, while the phage of *B. dysenteriae* is repressed only if used in concn. of 1:1,000,000 in the culture. *p*-Aminophenol (0.1%), thiamine (1%), dinitrophenol (4 mg. %), and rivanol (0.5 mg. %) repressed phage multiplication of *B. coli* in quant. expts. according to Spizizen's technique; NaF (0.018%) gave only mild repression. G. M. Kosolapoff

Semich, A.I.

11) Study of streptomycin when combined with other antibiotics. Z. V. Ermol'eva, A. I. Semich, A. P. Avtsyn, B. V. Ravich, E. K. Berezina, B. N. Lazareva, and A. M. Guslova. *Trudy Akad. Med. Nauk S.S.S.R., Antibiotiki i ikh Primenenie* 22, No. 1, 37-46 (1952).—The therapeutic action of streptomycin is enhanced when combined with penicillin, penicillin and ecmolin, or with PAS (p-aminosalicylic acid). The listed drugs acting as synergists permit the use of smaller doses of streptomycin (1000 units instead of 2000). They also help to overcome the resistance of dysentery and typhoid bacilli to the action of streptomycin. Good results were obtained in exptl. treatment of hematogenous TB in white mice. A. S. Mirkin

(6)

SEMICH, A. I. and YEREMOL'YEVA, Z. V. and Others

"Investigation of Streptomycin and of Combined Preparations Containing Streptomycin,"
Trudy Akademii Meditsinskikh Nauk SSSR, Vol. 22, Issue 1, pp 74-77, 1952.

SEMICH, A.I.

RAYICH, B.V., SEMICH, A.I., BEREZINA, Ya.K.

Mechanism of protective action of antibiotics in experimental
dysentery in white mice. Tr. Akad. med. nauk SSSR. Vol.22:97-
106 1952. (GIML 25:5)

1. Communication 1.

SEMICH, A.I.

Effect of penicillin in association with other anti-
bacterial substances on *Salmonella typhosa*. Tr. Akad.
med. nauk SSSR Vol 22:122-128 1952. (CML 25:5)

Semich, A.I.

Experimental study of native crystalline benzylpenicillin
in treating streptococcal sepsis of white mice. A. I.
Semich. *Trudy Akad. Med. Nauk S.S.S.R., Antibiotiki i
ikh primeneniye* 22, No. 1, 129-31(1952).—The therapeutic
and prophylactic actions of cryst. benzylpenicillin are
similar to those of amorphous penicillin. A. S. Mirkin

SEMIC, A. I., YERMOL'YEVA, Z. V., BEREZINA, Ye. K., VALEDINSKAYA, L. K., PETROVA, M. A.
and RUBTSOVA, L. K.

"Experimental study of Biomycin," appears in TABCON of Biomycin (Experimental Study and Clinical use of Biomycin), edited by A.F. Bilibin, Moscow 1954.

SO: Translation- 417, 21 Jun 1955.

USSR/Medicine - Typhoid

FD-538

Card 1/1 Pub. 148 - 1/23

Author . Yermol'yeva, Z.V., Avtsyn, A.P., Semich, A.I., and Berezina, Ye.K.

Title : An investigation of the chemotherapeutic characteristics of biomyacin
in Experimental typhoid fever cases

Periodical : Zhur. mikrobiol. epid. i immun., 6, 3-6, Jun 54

Abstract : White mice were experimentally enfeeted with typhoid pneumonia. They
were treated per os with various doses of a water suspension of biomyacin.
The biomyacin had a definite antibiotic effect on the treated animals.
It brought about a decrease in the severity and distribution of patho-
morphological changes occuring in the lungs of the mice, and suppressed
the reproduction of the typhoid bacilli. Its action, however, was not
complete since the typhoid microorganisms could still be cultured from
the treated animals' organs even after 30-40 days. The results of
the experiments are presented on two charts. No references are cited.

Institution : Division of Experimental Therapy (Head- Prof. Z.V.Yermol'yeva), All-
Union Scientific-Research Institute of Antibiotics(Director - Cand
Tech Sci A. G. Baychikov)

Submitted : 10 May 1953

SEMICH, A.I.

"Determination of the Concentration of Biomycin in Blood Serum,"
by A. I. Semich and M. A. Petrova, All-Union Scientific Research Institute of Antibiotics, Biomitsin (Biomycin), edited by Prof Z. V. Yermol'yeva, Corresponding Member, Academy of Medical Sciences USSR, and Prof A. F. Bilibin, Corresponding Member, Academy of Medical Sciences USSR, Moscow, Medgiz, 1956, pp 43-45

The author developed a method for the quantitative determination of biomycin in blood serum. Meat-peptone broth with a pH of 6.8-7.0 was used as a nutrient medium and the soil bacillus L₂ (spore forming) was used as a test microbe. The proposed method produces good results and may be used in the clinic. (U)

54M-1374

Semich, A. I.

1100 **✓** Absorbability and chemical properties of phenoxymethyl penicillin. A. I. Semich. *Antibiotiki* 1, No. 6, 6-10 (1958). The concn. of phenoxymethyl penicillin (penicillin V) (I) (K salt and free acid) in the blood of rats and mice is much higher than that of penicillin G (II) by peroral administration. I is much more effective than II against exptl. pneumococci infections in white mice. I and II are equally effective against streptococci infections. *D. M. Chera*

LAZAREVA, Ye.N.; PETROVA, M.A.; AVTSYN, A.P.; BEREZINA, Ye.K.;
SEMICH, A.I.; RYKALEVA, A.M.; AVER'YANOVA, L.L.; GLAGOVSKAYA, R.S.

Sodium salt of biomycin. Antibiotiki, Moskva 9 no.2:3-6 Mar-Apr
56 (MLRA 9:3)

1. Otdel eksperimental'noy terapii (zav.-chlen-korrespondent
AMN SSSR prof. Z.V. Yermol'yeva) Vsesoyuznogo nauchno-issledovatel'-
skogo instituta antibiotikov.

(CHLORTETRACYCLINE
sodium salt, pharmacol.)

SEMICH, A.I. (Cand of ^{Phys}Med. Sci.) VALEDINSKAYA, L.K. (Cand. of Med. Sci.)

"Study of Chemotherapeutic Properties of Terramycin in Cases of Experimental Infections,"

p. 203 Ministry of Health USSR Proceedings of the Second All-Union Conference on Antibiotics, 31 May - 9 June 1957. p. 405, Moscow, Medgiz, 1957.

SEMICH, A.I.

Experimental studies on erythromycin. Antibiotiki 3 no.2:42-45
Mr-Apr '58. (MIRA 12:11)

1. Otdel eksperimental'noy terapii Vsesoyuznogo nauchno-issledovatel'-
skogo instituta antibiotikov.

(MICROCOCCAL INFECTION, experimental,
eff. of erythromycin (Rus))

(PNEUMONIA, experimental,
same)

(ERYTHROMYCIN, effects,
on exper. micrococcal infect. & pneumonia (Rus))

SEMICH, A.I.; BEREZINA, Ye.K.; SOKOLOVA, Z.W.

Chemotherapeutic studies on nystatin in experimental candidiasis
in white mice. Antibiotiki 4 no.4:71-75 J1-Ag '59. (MIRA 12:11)

1. Otdel eksperimental'noy terapii (zav. - chlen-korrespondent
AMN SSSR prof.Z.V.Yermol'yeva) Vsesoyuznogo nauchno-issledovatel'-
skogo instituta antibiotikov.

(ANTIBIOTICS pharmacol)

(MONILIASIS exper)

TEBYAKINA, A.Ye.; INOZEMTSEVA, I.I.; EL'KINA, E.I.; SEMICH, A.I.;
BUZANOVSKAYA, I.S.; DRUZHININA, Ye.N.

Tetracycline salts of phenoxymethylpenicillin. Antibiotiki 7 no.2:
109-112 F '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(PENICILLIN) (TETRACYCLINE)

RUBTSOVA, L.K.; BELOZEROVA, O.P.; EYDEL'SHTEYN, S.I.; SEMICH, A.I.; PROKHOROVA,
I.I.

Some data on experimental clinical studies on oletetrine.
Antibiotiki 10 no.1:79-83 Ja '65. (MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

Yugoslavia/General Division. Scientific Institutions

A-3

Abs Jour : Ref Zhur--Biologiya, No 3, 1958, 9303

Author : V. Semich

Inst :

Title : The Founding of a Society of Anatomists of
Yugoslavia

Orig Pub : Veterin. Glasnik, 1956, 10, No 10, 797-798

Abstract : At a meeting of anatomists, histologists, and
embryologists of the medical and veterinary
faculties held in Belgrade July 1 1956 the
society was founded and officers were elected.

Card 1/1

USSR/General Division. Scientific Institutes

A-3

Abs Jour : Ref Zhur-Biologiya, No 3, 1958, 9304

Abstract : phosphorus and carbon and the intensity of the photosynthesis in various plants were studied. Also studied were the conditions of nutrition of seedlings and the interaction of species of trees. A new method of the study of the fertilization process in plants has been developed and the advantage of additional pollination was proved. Studies were conducted of the forestation of the Dnepr area sands, methods of control of pests and weeds. New herbicides were tested.

Card 2/2

RABUKHIN, A.Ye.; KLYUCHAREVA, Ye.A.; LAMBINA, A.G.; MEDVEDEVA, A.S.;
NEFEDOV, A.F.; RODIONOVA, T.V.; SEMICHA, A.M.;
YAKOVLEVA, T.A. (Moskva)

Tuberculosis of the lungs in old age. Klin. med. 40 no.12:
18-23 D '62. (MIRA 17:2)

1. Iz TSentral'nogo instituta usovershenstvovaniya vrachey.

3476 SEMICHASNOVA A. D.

Opyt raboty tekstil'nogo kombinata rigas manuf. ktura Po uluchsheniyu
rovnoty kholstov s odnoprotsessnoy trepal'noy mashiny TO-18. Riga,
1954 12s s ill 20 sm (Resp. dom nauki i. tekhniki mm i TP Latv. SSR,
Inform - Tekhn Listok No. 10477) Sektsiya Tekstil'shikov latv. SNITO 450
ekz. Bespl. Sost. ukazan v kontse teksta. (54-143962H) 477.21.021

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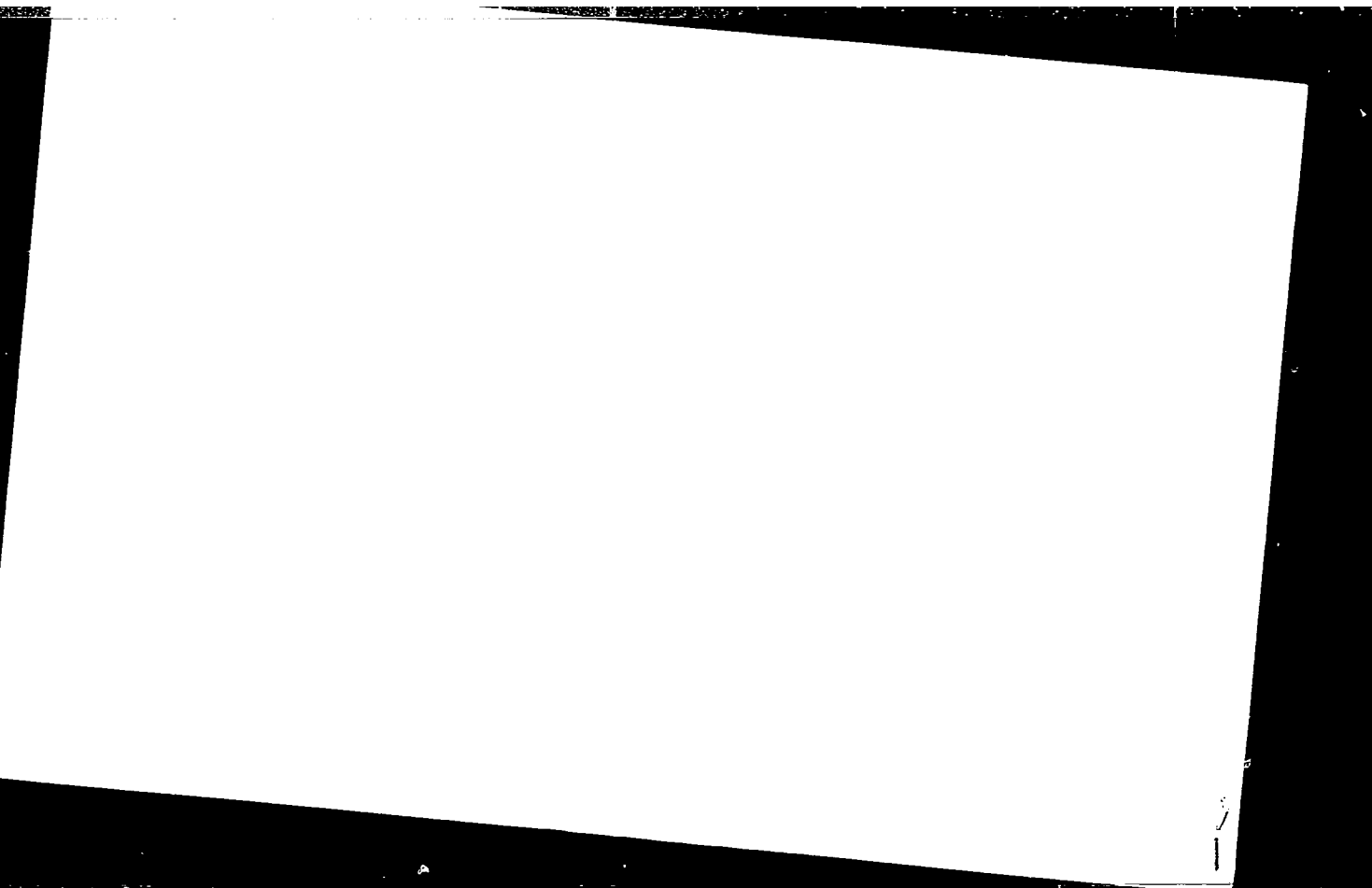
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SEMICHASTNOV, I. F.

Turboperedachi teplovesov. Moskva, Mashgiz, 1948. 158, (2) p. diagra.

Bibliography: 1 p. at end.

Turbine drives of Diesel locomotives.

DLC: TJ843.S4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

SEMICHASTNOV, I. F.

Turbopperedachi teplovoosov. Moskva, Mashgiz, 1948. 158,(2) p. diagrs.

Bibliography: 1 p. at end.

Turbine drives of Diesel locomotives.

DLC: TJ843.S4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

SEMICHASTNAYA, A.V.

Improving mechanical properties of the 65G steel for springs.
Stan.i instr. 31 no.8:29-31 Ag '60. (MIRA 13:8)
(Springs(Mechanisms)) (Steel--Testing)

SEMICHASTNAYA, A.V.; GELLER, Yu.A.

Steel for machine and press springs with high mechanical and technological properties. Izv. vys. ucheb. zav.; chern. met. (MIRA 15:5)
5 no.3:144-152 '62.

1. Moskovskiy stankoinstrumental'nyy institut.
(Steel alloys--Testing) (Springs (Mechanism))

L 38710-66 EWT(d)/EWT(m)/EWP(c)/EWP(v)/T/EWP(t)/ETI/EWP(k)/EWP(l) LJP(c) JD/JT/GD
 ACC NR: AT6017917 (A) SOURCE CODE: UR/0000/65/C00/000/0003/0012

AUTHOR: Semichastnaya, A. V. (Candidate of technical sciences) 73
 60
 B+1

ORG: None

TITLE: Improving the reliability and quality of springs by alloying spring steel 17

SOURCE: Leningradskiy dom nauchno-tekhnicheskoy propagandy. Povysheniye nadezhnosti pruzhin (Increasing the reliability of springs); sbornik. Leningrad, 1965, 3-12

TOPIC TAGS: alloy, spring, spring steel, stress relaxation, impact strength, carbon, silicon, nickel, tempering, sulfur, phosphorus

ABSTRACT: The author studies various ways of improving the reliability and quality of spring steel by efficient alloying. Various grades of spring steel are studied. The results show that the properties of spring steel with a carbon content of 0.5-0.65% are strongly dependent on relatively slight variations in this content. When carbon concentration is greater than 0.60-0.62%, impact strength and relaxational stability are sharply reduced. If carbon content is reduced below 0.50-0.54%, ductility is improved while elastic properties deteriorate. New varieties of steel have been developed for springs and similar products, e. g. EP464 and EP465 steel with a lower silicon concentration than 60S2/steel but having maximum content of carbon and alloying elements. The new grades of steel were produced at the "Elektrostal" Plant. Parallel 16

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L 38710-66

ACC NR: AT6017917

studies are conducted using the new steel as one series and 65G, 60C2, 50KhR, 65GR, 60SG, 60KhS, 55KhG, 65KhG, 65KhF, 60KhGSF and 50KhSF steels as the second. The sulfur and phosphorus content in the various kinds of steel under study does not exceed 0.03-0.04% and nickel content is less than 0.40%. A table is given showing the quenching temperature, hardness after quenching, grain size and sensitivity to decarbonization. The results show that 60KhGSF (EP464) steel is preferable to 50KhF and 60S2 steel for spring manufacturing, while 60SGR (EP465) steel should replace 65G steel. Grade 60KhGSF (EP464) steel has the optimum number of alloying elements and is characterized by high hardenability (calcination 50-55 mm and quenching 60-62 HRS), high strength (180-190 kgf/mm²), low sensitivity to decarbonization (<0.01 mm) and compact grain structure. Data are given on the heat treatment which gives the optimum combination of mechanical and elastic properties for the various varieties of steel. Orig. art. has: 4 figures, 6 tables.

SUB CODE: 11/ SUBM DATE: 19Oct65/ ORIG REF: 003/ OTH REF: 000

Card 2/2 *lit*

SEMICHASTNAYA, A.V. (Moskva); GELLER, Yu.A. (Moskva); MATVEYEVA, M.P. (Moskva)

Investigating the irreversible temper brittleness of spring steel.
Izv. AN SSSR. Met. no.4:150-155 JI-Ag '65.

(MIRA 18:8)

SEMICHASTNOV, I.F., kandidat tekhnicheskikh nauk, dotsent.

Effect of a choke disc on the operation of a turbine couplings.
[Trudy] MVTU no.64:42-52 '55. (MLRA 9:8)
(Hydraulic transmission)

SEMICHASTNOV, Ivan Fedorovich, kandidat tekhnicheskoy nauk, dotsent;
SHISHKIN, K.A., professor, retsenzent; VOSHCHININ, A.I., doktor
tekhnicheskikh nauk, professor, retsenzent; BLIZNYANSKIY, A.S.,
inzhener, redaktor; MATVEYEVA, Ye.N., tekhnicheskoy redaktor;
SOKOLOVA, T.F., tekhnicheskoy redaktor

[Hydraulic transmissions in diesel locomotives] Gidravlicheskie
peredachi teplovozov. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. lit-ry, 1956. 191 p. (MLRA 9:10)

(Hydraulic transmission)

(Diesel locomotives--Transmission devices)

113-58-6-6/16

AUTHOR: Il'in, Yu.N. and Semichastnov, I.F., Candidates of Technical Sciences

TITLE: On the Influence of the Geometry of Runners on the Properties of a Single-Stage Hydro-Transformer (O vliyanii geometrii rabochikh koles na svoystva odnostupenchatogo gidrotransformatora)

PERIODICAL: Avtomobil'naya promyshlennost', 1958. Nr 6, pp 13-18 (USSR)

ABSTRACT: In its Nr 7, 1957 issue, the periodical "Avtomobil'naya i traktornaya promyshlennost'" published an article by S.M. Trusov on the lack of elaborated methods of calculation and designing of a hydro-transformer in the Soviet automobile industry. It said that existing methods (Ref. 1,2 and 3) are applicable for the design of only a limited class of non-transparent hydro-transformers which are not used in the automobile industry. Trusov also proposed his own method. The authors of this article further developed the existing methods (Ref. 1,2,3, and 4) and indicated that the existing methods can be used for the construction of a transformer with any required characteristics. They also indicate the wrong conclusion by Trusov in his article

Card 1/2

113-58-6-6/16

On the Influence of the Geometry of Runners on the Properties of a Single-Stage Hydro-Transformer

and reproach him for his use of a foreign type hydro-transformer (Chrysler) for his calculations.
There are 8 graphs and 4 Soviet references.

ASSOCIATION: MVTU imeni Baumana (MVTU imeni Bauman) Vsesoyuznyy nauchno-issledovatel'skiy teplovoznyy institut (The All-Union Scientific Research Institute of **Diesel Locomotives**)

Card 2/2

1. Automobile industry--USSR 2. Transformers--Design
3. Transformers--Characteristics

SEMICHASTNOV, I.F., dots, kand.tekhn.nauk

Construction and operation of hydraulic transmission in diesel
locomotives. Elek. i tepl. tiaga no.6:23-26 Je '58. (MIRA 11:6)
(Diesel locomotives--Transmission devices)

SEMICHASTNOV, I.F., kand.tekhn.nauk; KATSMAN, A.B., red.; AL'TSHULER,
E.Sh., tekhn.red.

[Hydraulic transmissions of diesel locomotives] Gidravlicheskie
peredachi teplovozov. Moskva, Vses.in-t nauchn.i tekhn.infor-
matsii, 1959. 46 p. (MIRA 13:11)

(Diesel locomotives--Hydraulic drive)

SEMICHASTNOV, I. F.

25(2)

PHASE I BOOK EXPLOITATION

SOV/2779

Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti.
Leningradskoye oblastnoye pravleniye

Gidrodinamicheskiye peredachi (Hydrodynamic Transmissions) Moscow, Mashgiz,
1959. 245 p. (Series: Its: Trudy, vyp. 52) 3,000 copies printed.

Ed.: V.P. Gur'yev, Candidate of Technical Sciences, Docent; Tech. Ed.: L.V.
Shchetinina; Managing Ed. for Literature on Machine-Building Technology
(Leningrad Division, Mashgiz): Ye.P. Naumov, Engineer.

PURPOSE: This book is intended for engineering and technical personnel in the
field of hydraulic transmission. It may also be used as a textbook for students
of higher technical schools.

COVERAGE: The book is a collection of 20 papers read at the first conference on
hydrodynamic transmissions held in Leningrad from 9-11 December, 1957, at
which problems of calculation, design, production and operation of hydraulic
clutches and hydraulic converters widely used in industry were discussed.

Card 1/5

Hyarodynamic Transmissions

SOV/2779

5. Laptev, Yu.N. Investigation of the Influence of Basic Geometrical Parameters of Rotors on the Characteristics of one-stage Hydraulic Converters 61
6. Kulikov, N.K. Influence of Hydraulic Converter Parameters and the Transmission Ratio on the Dynamics of Starting 83
7. Simirnov, M.V. Experience in Desighing Producing, and Operating Marine Hydraulic Transmissions 101
8. Kryukov, A.P. Experience in Designing, Producing and Testing Hydraulic Converters 108
9. Kolesov, V.A. Influence of the Combined Characteristics of Hydraulic Converters and Internal Combustion Engines on Basic Indicators of the Power Plant. 115
10. Experience in Designing, Testing, and Operating Turbo-transmissions of Conduit Mechanisms Used in the Petroleum Industry 126

Card 3/5

GAVRILENKO, Boris Aleksandrovich; MININ, Viktor Aleksandrovich;
SEMICHASTNOV, I.F., dotsent, kand.tekhn.nauk, retsenzent;
LAPIDUS, V.I., kand.tekhn.nauk, red.; BOGOMOLOVA, M.F.,
izdat.red.; ZUDAKIN, I.M., tekhn.red.

[Hydrodynamic couplings] Gidrodinamicheskie mufty. Moskva,
Gos.izd-vo obor.promyshl., 1959. 332 p. (MIRA 13:2)
(Oil-hydraulic machinery)

SEMICHASTNOV, I.F.

Investigating joint operation of a turbine clutch and a turbine
transformer with the gearbox in diesel engines. [Izd.] LONITOMASH
52:136-158 '59. (MIRA 12:12)
(Oil hydraulic machinery) (Oil fields--Equipment and supplies)

GAVRILENKO, Boris Aleksandrovich, kand. tekhn. nauk; MININ, Viktor Aleksandrovich; OLOVNIKOV, Leonid Sergeyevich; SEMICHASTNOV, I.F., kand. tekhn. nauk, retsenzent; BYSTRITSKAYA, V.V., inzh., red.; TIKHANOV, A.Ya.

[Hydraulic brakes] Gidravlicheskie tormoza. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 243 p. (MIRA 14:9)
(Hydraulic brakes)

SEMICHASTNOV, Ivan Fedorovich, kand. tekhn. nauk; POPOV, G.V., inzh.,
retsenzent; GALANOVA, M.S., red. izd-va; TIKHANOV, A.Ya.,
tekhn. red.

[Hydraulic transmissions of diesel locomotives]Gidravlicheskie
peredachi teplovozov. Izd.3., perer. Moskva, Mashgiz, 1961.
331 p. (MIRA 15:10)
(Diesel locomotives—Hydraulic drive)

SEMICHASTNOV, I.F., kand.tekhn.nauk

Prospects of an expanded use of hydraulic drives for diesel locomotives. Zhel.dor.transp. 44 no.6:47-50 Je '62.
(MIRA 15:8)
(Diesel locomotives--Hydraulic drive)

SEMICHASTNOV, I.F., doktor tekhn. nauk; GOLOVANOV, S.S., inzh.;
VOLOBYEV, I.N., inzh., retsenzent; ELIZYANSKIY, A.S.,
inzh., red.

[Selecting hydraulic torque converters and hydraulic
clutches for the hydraulic drive of diesel locomotives]
Vybor gidrotransformatorov i gidromuft dlia gidropere-
dach teplovozov. Moskva, Mashinostroenie, 1965. 198 p.
(MIRA 18:4)

SEMICHASTNOV, M. P., Docent

Cand. Tech. Sci.

Dissertation: "Investigation of the Methods for Manufacture of Airplane Landing Gears."
Moscow Aviation Technological Inst, 24 Apr 47.

SO: Vechernyaya Moskva, Apr, 1947 (Project #17836)

KISHKIN, S.T., doktor tekhn.nauk; SEMICHASTNOVA, V.P., kand.tekhn.nauk;
GENKE, O.V., inzh

Failure of nickel-base alloys under the effect of repeated
loading. Trudy MAI no.123:69-75 '60. (MIRA 13:8)
(Nickel alloys--Testing)

L 24485-65

ACCESSION NR: AR4045861

S/0299/64/000/011/M022/M023

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs. 14M48

AUTHOR: Semichastnyy, A. I.

TITLE: The effect of repeated skin homotransplantation² on the effectiveness of skin plastic surgery

CITED SOURCE: Sb. 3 Vses. konferentsiya po peresadke tkaney i organov, 1963. Yerevan, 1963, 454-455

TOPIC TAGS: skin, transplantation, homotransplantation, burns, autotransplantation, plastic surgery

TRANSLATION: One hundred forty-four patients with burns received 360 skin homotransplants from 61 donors and from the dead bodies of 38 adults and 59 fetuses in a surgical clinic. The skin of the donors and dead bodies was preserved in various isotonic saline solutions with the addition of plasma, gelatin, glucose, and antibiotics in some cases. Also, skin preserved by lyophilization or freezing to -70° was used, but in no case did accretion occur. With

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single skin transplants, accretion of homotransplants took place within 3 to 4 mos. With repeated transplants, the life of the homotransplants depended on the intervals between transplants. With the first homotransplant after repeated transplantation, the homotransplant was subject to lysis and the accretion of retransplanted skin grafts was only partial. Manifestations of homotransplant destruction were more markedly expressed as the intervals between transplants became shorter. The same regularities were observed in alternating auto- and homotransplantation. With a time interval of not less than one week after lysis was completed in accreted homotransplants, subsequent transplants gave the same results as a single skin transplant. If the first homotransplant did not take or if the homotransplant was nonviable, disengagement acceleration of subsequent homotransplants did not take place.

SUB CODE: LS

ENCL: 00

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L 19787-65 Pb-h/Pa-h MFD/AFGO(c)

ACCESSION NR: AR4045763

S/0299/64/000/013/M016/M016

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs. 13M100

AUTHOR: Zotikov, Ye. A.; Urinson, R. M.; Semichastnyy, A. I.;
Poreshina, L. P.

TITLE: Isosensitization of patients during skin homotransplantation

CITED SOURCE: Sb. 3 Vses. konferentsiya po peresadke tkaney i organov, 1963. Yerevan, 1963, 34-36

TOPIC TAGS: isosensitization, skin, homotransplantation, antibody, transplantation, immunization, human, blood group, antigen

TRANSLATION: Recipient immunological reactivity was investigated in relation to donor blood group antigen tissue before and after skin transplantation. Complete and incomplete antibodies were found. Complete antibodies were studied by hemagglutination reaction and incomplete antibodies by Kum's test. Before the experiment natural isohemagglutination was destroyed in the serums by heating. Agglutinin titer did not change in cases of skin transplantation when

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ACCESSION NR: AR4045763

the donor and recipient were of the same blood group. When donor and recipient were of different blood groups, complete antibodies were found in 2 of 15 cases at the end of the 1st week and beginning of the 2nd week, incomplete antibodies were found in 2 cases, and a combination of both was found in 3 cases. Antibodies were preserved for 1 to 2 1/2 mos after homotransplantation. In 8 recipients formation of immune antibodies after homotransplantation was not found. A conclusion is drawn that the skin contains group antigens and sensitizes the recipient. This should be considered in serotherapy of burns and in homotransplantation to women of childbearing age, when sensitization of the organism may exert an unfavorable effect on pregnancy and fetus. In such cases it is advisable to transplant skin from a donor of the same group.

SUB CODE: LS

ENCL: 00

Card 2/2

BIGLER, M.S.; SHARYGINA, L.I.; KASPAROVA, A.B.; YAKOVLEV, V.A.;
GRINEVICH, N.N.; YUDINA, A.P.; SEMICHENKO, N.P.;
STOLYAROV, A.I.; FURSOVA, T.A.; KOZLOV, I.D., red.;
SERFOKRYL, S.M., red.

[Leningrad and Leningrad Province in figures; a statistical abstract] Leningrad i Leningradskaia oblast' v tsifrakh; statisticheskii sbornik. Leningrad, Lenizdat, 1964. 250 p. (MIRA 18:2)

1. Leningrad. Statisticheskoye upravleniye. 2. Statisticheskoye upravleniye Leningrada (for Kozlov, Sharygina, Kasparova, Yakovlev, Grinevich, Yudina). 3. Statisticheskoye upravleniye Leningradskoy oblasti (for Semichenko, Stolyarov, Fursova).

^E
SEMICHOV, B.V.

Setting up a safety zone for operations according to a continuous work schedule. Les.prom.14 no.4:17-18 Ap '54. (MLRA 7:4)

1. Ispolnyayushchiy obyazannost' glavnogo inzhenera Oktyabr'skogo lespromkhoza tresta Yaroslavles. (Lumbering)

BIGLER, M.S.; SHARYGINA, L.I.; KASPAROVA, A.B.; YAKOVLEV, V.A.;
GRINEVICH, N.N.; YUDINA, A.P.; SEMICHENKO, N.P.;
STOLYAROV, A.I.; FURSOVA, T.A.; KOZLOV, I.D., red.;
SERPOKRYL, S.M., red.

[Leningrad and Leningrad Province in figures; a statistical abstract] Leningrad i Leningradskaya oblast' v tsifrakh; statisticheskii sbornik. Leningrad, Lenizdat, 1964. 250 p.
(MIRA 18:1)

1. Leningrad (Province) Statisticheskoye oblastnoye upravleniye. 2. Statisticheskoye upravleniye goroda Leningrada (for Bigler, Sharygina, Kasparova, Yakov'ev, Grinevich, Yudina). 3. Statisticheskoye upravleniye Leningradskoy oblasti (for Semichenko, Stolyarov, Fursova). 4. Nachal'nik Statisticheskogo upravleniya goroda Leningrada (for Kozlov).

SEMICHEV, B.V.

Meeting of the scientific council of the Buryat-Mongolian Branch
of the Geographic Society of the U.S.S.R. devoted to the memory of
Gombozhab TSybikovich TSibikov. Izv.AN SSSR.Ser.geog. no.2:166
Mr-Ap '56. (MLRA 9:8)
(TSybikov, TSybikovich Gombozhab, 1873-1931)

SEMICHOV, B.V.

On certain herbs growing in the Buryat-Mongolian A.S.S.R. that are
used in Indic-Tibetan medicine. Kraeved. sbor. no.2:158-163 '58.

(MIRA 13:2)

(Tibet---Botany, Medical)

SEMICHEV, D.A., podpolkovnik; OSIPOV, I.A., polkovnik, redaktor; MYASHIKOVA,
I.F., tekhnicheskiiy redaktor

[General of the army N.F.Vatutin] General armii N.F.Vatutin. Moskva,
Voen.izd-vo Ministerstva obor. SSSR, 1956. 52 p. (MLRA 10:2)

1. Moscow. TSentral'nyy muzey Sovetskoy Armii.
(Vatutin, Nikolai Fedorovich, 1901-1944)

KARACHEVSKIY, Aleksandr Sergeyevich; SEMICHEV, P.D., redaktor; MUNTIAN, T.P.,
tekhnicheskiiy redaktor.

[Elementary training of marksmen] Nachal'naia podgotovka strelka-
sportsmena. Izd.2-oe, perer. i dop. Moskva, Izd-vo DOSAAF, 1956.
191 p. (Shooting) (MIRA 9:6)

SEMICHEV, S.M.

For a rapid standardization of consumer goods. Standartizatsia
28 no.10:50-51 O '64. (MIRA 17:12)

1. Zamestitel' predsedatelya Gosudarstvennogo komiteta Soveta
Ministrov SSSR po trgovle.

8(6), 14(6)

DOV/112-39-4-6591

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 4, p 29 (USSR)

AUTHOR: Bychkov, S. A., Kuznetsov, L. A., and Semichay, V. G.

TITLE: Stationary NZL Gas Turbines

PERIODICAL: V sb.: Ispol'zovaniye gasa v teplosilovyykh ustanovkakh. M.-L., Gosenergoizdat, 1957, pp 114-121

ABSTRACT: Nova Machine-Building Plant imeni Lenin builds 1.5-6-Mw gas-turbine units. All units built by this plant have the simplest scheme with a developed regeneration and a turbine-entrance temperature of 600°C. The first GT-600-1.5 industrial unit (600°C, 1.5 Mw) operates on various grades of heavy liquid fuel. The PG-50000 gas-turbine-compressor (reference capacity 2.5 Mw) is intended for operation on a low-calorie gas from underground gasification. Its axial extraction-type compressor ensures delivering 50,000 m³/hr of air into the drill-hole at 2.8-atm. The GT-600-6 unit operates on blast-furnace gas with $Q_P^{IV} = 630$ kcal/kg and drives a 6-Mw

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SOV/112-59-4-6591

Stationary NZL Gas Turbines

generator. Use of a double housing and runner air cooling permitted considerable savings on austenite steel without any appreciable reduction of efficiency or reliability of the machine. A GT-700-4 unit (700°C, 4 Mw) has been developed for gas-pumping stations; its scheme is similar to that of GT-600-1.5, but it has, in addition, a superimposed turbine. New blading in its gas-flow path ensures a high efficiency.

V.S.P.

Card 2/2

84482
S/112/59/000/014/014/085
A052/A001

26.2/21

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, No. 14, p. 32,
28753

AUTHORS: Semichev, V. G., Chernyak, Kh. T., Golovin, Yu. D., Shabashov, S.Z.,
Kruglov, G. P.

TITLE: Gas-Turbine Unit GT-700-4 With Centrifugal Supercharger 280-11-2

PERIODICAL: Tr. Nevsk. mashinostroit. z-da, 1957 (1958), No. 1, pp. 69-91

TEXT: The main features of centrifugal superchargers with a gas-turbine drive for pumping stations of the main gas pipelines are: a variable number of revolutions permitting the maintenance of a high efficiency at considerable deviations of the load from the rated level; the utilization of gaseous fuel; starting by means of the turbine compressed-gas driven engine. The gas turbine of 4.8 atm and 700°C has 2 cylinders and a composite rotor. The disks of the initial stages are air-cooled (up to 1.5% air). The central (flow) part of the turbine consists of 6 stages, the first three having a low degree of reaction and the last with a 50% reaction. According to the experimental data the

Card 1/2

SEMICHEV, V. ^Ginzh.

At the Nevskii Machinery Manufacturing Plant. Energomashinostroenie
4 no.2:11 F '58. (MIRA 11:4)
(Gas turbines)

I 5692-66 EWT(m)/E.P(v)/E.P(j)/I/ETC(m) WW/RM
 ACC NR: AP5000994 44,55 SOURCE CODE: UR/0286/65/000/022/0061/0062 44,55
 INVENTOR: Kiselev, B. A.; Severnyy, V. V.; Zhdanov, A. A.; Bodrova, V. V.; Guttsayt, 44,55
 E. Yu.; Semichev, V. P. 44,55
 ORG: none 15, 44,55
 TITLE: Preparative method for glass-reinforced plastics. Class 39, No. 176421 15
 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965; 61-62
 TOPIC TAGS: glass, reinforced plastic, binder, organosilicon compound
 ABSTRACT: An Author Certificate has been issued for a preparative method for glass-reinforced plastics based on organosilicon binders. To lower the curing temperature, a mixture of low-molecular-weight liquid polyorganosiloxanes containing Si-H groups and polyorganosiloxanes with vinyl substituents on the Si atom are used as the binder. [BO]
 SUB CODE: 11/ SUBM DATE: 29Dec64/ ATD PRESS: 4157
 UDC: 678.84
 Card 1/1

NIFOROV, V.V.; SEMICHKOVSKIY, Yu.A.

Rheostat-type pickup of movements. Izv.tekh. no.7:4-5 JI '62.
(MIRA 15:6)

(Recording instruments)

E

Country : USSR
Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, 103480.

Author : Pogorel'skaya, S.A.; Semichova, S. A.

Inst : -

Title : Study of the Methods of Improving the Quality of
Dysentery Bacteriophage.

Orig Pub: Sb. Bakteriofagiya. Tbilisi, Gruzmedgiz, 1957,
109-113.

Abstract: Phages to cultures of Sonne and Flexner dysentery were isolated from stools, sewage and river water, duck excrement and old dysentery cultures. The greatest number of positive results were obtained through isolation by the method of subculture with subsequent filtration. Isolation of the phage by the method of

Card : 1/3

14

E

Country : USSR

Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, No 103512

Author : Senichova, S.A.

Inst :

Title : Study of the Properties of the Cholera Bacteriophage

Orig Pub: Sb. Bakteriofagiya. Tbilisi, Gruzmedgiz, 1957,
349-353

Abstract: The properties were studied of cholera phages of types A, V, D, and Ye. The type Ye phage and also the types V and D phages possessed the broadest lytic spectrum with respect to the cholera vibrios of the Ogawa and Inaba types. The phage of type A lysed only several strains of the Ogawa type. Differentiation of the phages mentioned according

Card : 1/2

44

BYUYRIN, A.I.; KASYMOV, S.; SEMIDALOV, Yu.I.; SILKINA, N.I.

Efficient method of ore breaking in the mining of thick Dzhes-
kazgan deposits with the use of self-propelled equipment. Trudy
Inst.gor.dela AN Kazakh.SSR 14:28-35 '64.

(MIRA 18:1)

BORISOVA, A.G.; IL'IN, M.M.; KLOKOV, M.V.; LINCHEVSKIY, I.A.; POBEDIMOVA,
Ye.G.; SEMIDEL, G.L.; SOSKOV, Yu.D.; SOSNOVSKIY, D.I.;
TAMAMSHYAN, S.G.; KHARADZE, A.L.; TSVELEV, N.N.; CHEREPANOV, S.K.;
SHOSTAKOVSKIY, S.A.; BOBROV, Ye.G., doktor biol. nauk, prof.,
red. toma; SHISHKIN, B.K., red. izd. [deceased]; SMIRNOVA, A.V.,
tekhn. red.

[Tribes Cynareae and Mutisieae.] Kolena Cynareae i Mutisieae.
Moskva, 1963. 653 p. (Akademiia nauk SSSR. Botanicheskii institut.
Flora SSSR, vol.28). (MIRA 16:12)

SEMIDUBERSKIY, Mikhail Srul'yevich; TURK, V.I., kand.tekhn.nauk, retsenzent;
ZHIVOTOVSKIY, L.S., kand.tekhn.nauk, retsenzent; KRYUCHKOVICH, N.M.,
inzh., retsenzent; ZHIVOTOVSKIY, L.S., kand.tekhn.nauk, nauchnyy
red.; PRUDNIKOVA, M.N., red.; GILKINSON, P.G., tekhn.red.

[Pumps, compressors, ventilators] Nasosy, kompressory, ventilatory.
Moskva, Gos. izd-vo lit-ry po stroit. materialam, 1957. 222 p.
(Compressors) (MIRA 11:4)
(Pumping machinery)
(Ventilation-- Apparatus and supplies)

SEMIDUBERSKIY, Mikhail Srul'yevich; KOPTEVSKIY, D.Ya., red.; VORONINA,
R.K., tekhn. red.

[Pumps, compressors, ventilators] Nasosy, kompressory, venti-
liatory. Izd.2., perer. i dop. Moskva, Gos. izd-vo "Vysshaia
shkola," 1961. 287 p. (MIRA 15:1)
(Pumping machinery) (Compressors)
(Fans, Mechanical)

SEMIGLAZOV, A.M.

Converter of continuous electric values to discrete code. Izv.
tekh. no.11:39-40 N '62. (MIRA 15:11)
(Electronic analog computers)

KUCHERYAVYY, F.I., kand.tekhn.nauk; MAYNOV, V.I., gornyy inzh.;
SEMIGLAZOV, N.I.

Results of using "igdanite" in strip mines of the Balaklava
Mining Administration. Gor.zhur. no.12:23-24 D '63.
(MIRA 17:3)

1. Dnepropetrovskiy gornyy institut (for Maynov). 2. Na-
chal'nik Zapadno-Kadykovskogo rudnika Balaklavskogo rudo-
upravleniya (for Semiglazov).

СЕНТЯБРЬ, № 9.

СРБСР Самойлова, Ye. D. Vliyeniye Yasnogo Davleniya Na Pronitsaye Iost
Serditsoy cheloveka. Vracheb. Delo, 1948, No. 6, str. 175-180

SC: Letopis' Zhurnal Statay, No. 30, Moscow, 1948

SENIGLAZOVA, Ye. D.

22023 Seniglazova, Ye. D. Belki plazmy krovi i izmeneniye pronitsa^enosti katsillyarov
pri razlichnykh zabol'svaniyakh Vracheb delo, 1949, No. 7, str. 577-82

SC: Istopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949.

SEMIGIAZOVA, Ye. D.

External respiration in hypertension. Ter. arkh., Moskva 24 no. 5:
(GIML 23:3)
82-88 Sept-Oct 1952.

1. Candidate Medical Sciences. 2. Of the Hospital Therapeutic Clinic
(Head -- Honored Worker in Science Prof. N. A. Kurshakov) of the
Second Therapeutic Faculty of First Moscow Order of Lenin Medical
Institute.

SEMIGLAZOVA, Ye.D.

Occupational diseases in roentgenologists and radiologists [with
summary in English]. Vest.rentg. i rad. 33 no.1:71-74 Ja-F '58.
(MIRA 11:4)

1. Iz kafedry luchevoy bolezni (zav.-prof. A.V. Kozlova) TSentral'nogo
instituta usovershenstvovaniya vrachey (dir. V.P. Lebedeva).

(RADIATIONS, inj. off.

radiation sickness in radiologists (Rus)

(OCCUPATIONAL DISEASES

same)

ANKUDINOV, V.A.; SEMIGLAZOVA, Ye.D.

Changes in liver function after prolonged exposure to ionizing
radiations. Med.rad. 5 no.4:3-6 Ap '60. (MIRA 13:12)
(RADIATION SICKNESS) (LIVER)

SEMIGUK, Z.

[Manual for operators of planting machinery] Pamiatka seial'shchika.
[Krasnoiarsk] Krasnoiarskoe kraevoe izd., 1945. 10 p. (MIRA 10:8)
(Sowing)

SEMIGUZOV, G. K.

"Quaternary Glaciation of the Sunnaghin Range (South Yakutia)," Dok. AN, 48, No. 8,
1945. c1945--.

BELYAKOV, F.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIN, I.N.;
 GUREVICH, G.M.; GORBUNOVA, P.I.; KONNOV, A.S.; KALANTAROVA, M.V.;
 KASHIRSKIY, A.Ya.; KAZANCHIYEV, Ye.N.; LEKSUTKIN, A.F.; LETI-
 CHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSEVALOV, V.N.;
 SUBBOTINA, V.P.; TANASIYCHUK, N.P.; FEDOTOV, S.D.; FISENKO, K.N.;
 EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALE-
 CHIN, N.I.; DADAGOV, I.A.; YERMOSHINA, V.I.; ZHUKOV, I.V.; ZIMIN,
 D.A.; IVANNIKOV, A.Ya.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY,
 A.F.; SEREZHNIKOV, V.K.; SEMIGLASOV, M.D.; SOKOLOV, A.V.; STEPANOV,
 V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.;
 CHIKINDAS, G.S.; SHCHERBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.;
 OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO,
 I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ye.; SUSLIN, V.A.; BRUS, A.Ye.;
 VOLYNSKIY, S.A.; KLYUYEV, V.A.; ISTRATOV, A.G.; TIKHOMIROV, I.F.;
 BUTYRIN, Ya.N.; VOLYNSKIY, S.A.; MINEYEV, M.F.; MAL'TSEV, V.I.;
 VIDETSKIY, A.F., kand.tekhn.nauk, glavnyy red.; DEMIDOV, A.N., red.;
 KRAVETS, A.L., red.; KLIMOVA, Z.I., tekhn.red.

[Industrial Astrakhan] Promyshlennaya Astrakhan'. Astrakhan',
 Izd-vo gazety "Volga," 1959. 318 p. (MIRA 12:11)

1. Astrakhan (Province) Ekonomicheskii administrativnyy rayon.
 (Astrakhan Province--Economic conditions)

ZHELEZOVSKIY, V.; TIKHONOV, Yu.; SEMIK, A.; SHAPOVALOV, A., starshiy inzh.

Technical information. Okhr. truda i sots. strakh. 5 no.5:35,37-38
My '62. (MIRA 15:5)

1. Oblastnoy sovet Vsesoyuznogo obshchestva izobretateley i
ratsionalizatorov, g. Rostov-na-Donu (for Shapovalov).
(Technological innovations)

SEMIK, Frantisek, inz.

Experience with construction of relay safety systems. Zel dop tech
11 no.2:41-42 '63.

Viscosity of Magnitogorsk blast furnace slags. I. P. Semik. *Soviet. Met.* 10, No. 2, 22-34 (1938).—The slag, high in Al_2O_3 , and of relatively low basicity, was tested with the viscometer of Selivanov and Shepizman (cf. C. A. 32, 4110). Three-component slags are more viscous the higher the ratio SiO_2/CaO , at const. Al_2O_3 content and the higher the Al_2O_3 content when SiO_2/CaO is const. Addn. of about 4% of MnO and MgO lowers the viscosity at 1400-1500° about half; the effect of the addn. is higher the lower the temp. In calcns., the RO content can be considered to be CaO without great error at 1500-1600°; at 1400° the error will be very great. The liquefying action of MgO at temps. over 1400° on all slags is very considerable, but at lower temps. MgO can even considerably increase the viscosity, especially in slags high in Al_2O_3 and with excess of CaO over SiO_2 . The liquefying action of MnO also is considerable, especially for higher SiO_2/CaO values. CaS in amts. that may be found in slags has practically no effect on the viscosity of basic aluminous slags. In more-acid slags it considerably increases the viscosity at all temps. It has also practically no effect on the viscosity of low-alumina basic slags at temps. over 1500° and at lower temps. a substitution by CaS of a part of the lime liquefies a viscous slag. Slags containing 0 and 8% of CaS consisted of 2 layers.

R. B. Stefanowsky

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Viscosity of blast-furnace slags. I. P. Samukh (Metalurgical Inst., Acad. Sci., U.S.S.R.). *Akad. Nauk S.S.S.R., Otdel. Tekh. Nauk, Inst. Mashinovedeniya, Sveshchaniye Vysokosti Zhidkosti i Kolloid. Rastvorov (Conference on Viscosity of Liquids and Colloidal Solns.)* 1, 257-69 (1941).—The four initial ternary slags investigated had the compns.: (I) SiO_2 55.0, Al_2O_3 10.0, CaO 35.0; (II) SiO_2 35.0, Al_2O_3 20, CaO 45.0; (III) SiO_2 56.0, Al_2O_3 14.0, CaO 30.0; (IV) SiO_2 38.4, Al_2O_3 10.1, CaO 41.9, MgO 2.5, MnO 1.88, FeO 0.22, CaS 5.0. The viscosimeter is of the rotating-spindle type, suspended on an elastic steel wire 0.3 mm. in diam. and 120 mm. long. The lower limit of accuracy of 0.2 poise. The upper limit of viscosity, at the given speed of rotation, is about 70 poises. The four initial slags gave the following viscosities, in poises, at 1350°, 1390°, 1600°, resp.: (I) 69.7, 21.0, 11.3; (II) 18.0 (1400°), 6.0, 3.5; (III) 81.0 (1450°), 56.0, 31.0; (IV) 11.8, 3.2, 1.8. Addn. of 2% Na_2O to slag (I) resulted in only very slight decrease of the viscosity; a further unexpectedly slight decrease was observed on adding 4% Na_2O . Addn. of 2% K_2O has the same effect as 2% Na_2O , but no further effect was observed with 4% K_2O ; the 4% curve lies somewhere between the original curve of slag (I) (without alkali added) and the 2% K_2O curve. On slag (II) the effect of addn. of 2 or 4% Na_2O or K_2O is insignificant, especially above 1400°. These addns. lower the temp. of solidification of the slag; while (II) is definitely nonfluid at about 1400°, the same slag with 4% Na_2O or K_2O only solidifies below 1290°. Addn. of 4% K_2O to the acidic slag (III) has the same effect as on (I); it has no effect whatever on (IV). In general, addns. of alkali to the extent of 2 to 4% have a slight viscosity-lowering effect on acidic slags and no effect on basic slags. The "liquefying" action of alkalies on basic slags is no greater than the effect of CaO as found by MacCallery. Observations showed that the surface layer of fused slag has an anomalous viscosity. In particular, readings differ according to the depth of immersion of the rotating spindle. The anomaly exists not only at temps. close to the temp. of solidification, where the limiting shearing stress is particularly high, but even at higher temps. It would appear that even above the freezing temp. a thin surface layer behaves like a cryst. solid. Chem. analysis failed to show any difference in compn. for the surface layer as compared with the bulk of the liquid. N. Thom

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The viscosity of titanium blast-furnace slags and the smelting of crude Kusun titanomagnetites with coke I. P. Semik. *Bull. acad. sci. U. R. S. S., Classe sci. tech.* 1941, No. 4, 55-60.—The finely ground slag samples were fused with the addns. in the viscometer furnace immediately before the expts. After fusing the slags were kept at high temps. until no more gas bubbles evolved from the melt. In all cases this temp. was above 1400° and not below the temp. at which the slag was completely fluid. The η measurements were made at approx. 1000° and continued with slow cooling until the slag was practically nonfluid. Ti slags contg. up to 20% of TiO_2 thicken very little in graphite crucibles in an atm. of $CO + N_2$ for several hrs., when kept at temps. of 1270-1485°. The η of such slags can be detd. in graphite crucibles. The thickening of such slags in the blast furnace is also slow. Slags contg. 30% of TiO_2 thicken considerably. A 2nd heating of such slags to 1550° for 15 min. produced a η of 37.3 poises. The exptl. values of the η form a uniform η -temp. curve. With increase of TiO_2 , the temp. of the sudden break of the curve increases, i. e., the fusibility of the slag decreases and the η at higher temps. decreases. The effect of addns. of TiO_2 resembles that of CaO qualitatively, but is very different quantitatively. The qual. similarity indicates that a part of Ti in the blast furnace is in the form of the lower oxides. Slags high in TiO_2 can be made to fuse at lower temps. by addns. of SiO_2 . The ratio $CaO:SiO_2$ has an important effect on the fusibility of Ti slags. The m. p. of high- TiO_2 slags is 1300° at a $CaO:SiO_2$ ratio of 0.9. Exptl. coke smelting of crude Kusun titanomagnetites, with nepheline and miaskite as fluxes, produced good results. Nine references.

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Viscosity, melting, and thickening of Ti slags of the system SiO_2 - TiO_2 - CaO at a constant content of Al_2O_3 , 17%, and MgO 8%. I. P. Semik. *Bull. acad. sci. U.S.S.R., Classe sci. tech.* 1941, No. 9, 59-76; cf. C.I. 34, 183. Slags obtained in blast furnaces working on titanomagnetites contain Al_2O_3 about 17%, MgO about 8%, SiO_2 15-40%, TiO_2 10-45%, and CaO 15-40%. The viscosity of 30 synthetic mixts. within this range is detd. in a concentric-cylinder viscometer. With the exception of the mixts. contg. 10-15% of TiO_2 and 35-40% of SiO_2 , all melts show a sharp (within, say, 20°) transition from low viscosity values at high, to high viscosity at low, temp. The temp. of this transition has a min. at the wt. ratio $\text{CaO}:\text{SiO}_2 = 0.9-1.0$; at a const. ratio $\text{CaO}:\text{SiO}_2$ it is the higher the larger is the TiO_2 concn. The extreme temps. are 1310° for SiO_2 30, CaO 25-30, and TiO_2 15-20%, and 1565° for SiO_2 15, CaO 35, and TiO_2 25%. At a const. temp. the viscosity has a min. at 20-5% of SiO_2 . When kept at 1500-1600° for several hrs. all these slags thicken at a rate increasing with TiO_2 concn. and with temp. The "transition temp." is not affected by thickening. The amt. of TiC and Ti_2O_3 in the slags increases during thickening; as the growth of the TiC concn. more closely resembles the growth of viscosity than does that of the Ti_2O_3 concn., TiC is supposed to be the main reason for thickening. When 1-3% of O is bubbled through molten slag after thickening, its viscosity is reduced to its original value. Changes in blast furnaces suggested by these results are advocated.

B. C. P. A.

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